GENERAL NOTES

1. The attached NRCS Construction and Material Specifications are part of this plan and shall govern this installation.
2. The installation will be operated and maintained as described in the O&M plan prepared for this installation.
3. Management of chemicals is the responsibility of the owner/operator and will be done in accordance with applicable federal, state and local laws and regulations.

DESIGN NOTES

1. Locate water and electric lines, as required, outside of slab/sump area. Final location of water lines, faucets, electric lines shall be as required by owner/operator to facilitate the operation and as required by NRCS Standards and Specifications.
2. The structure need not be enclosed if the containment volume is at least 125 percent of the volume of the largest spray equipment tank plus volume of the 2–year, 24 hour storm event. If the structure is enclosed, the enclosure will be designed by a Registered Professional Engineer licensed in Oregon State to meet local building codes, and NRCS Oregon Interim Agrichemical Handling Facility Standard 596. The plans shall be sealed by the Registered Professional Engineer.
3. The Agrichemical Handling Facility shall be in accordance with NRCS Oregon Interim Standard for Agrichemical Handling Facility, Code 596, and the attached Construction Specifications. Plans shown are typical and can be modifies as necessary to meet the owner/operator needs. All modifications shall be approved by the State Conservation Engineer, prior to construction.
4. Electrical service shall meet or exceed the requirements of the latest National and Local Electrical Code. All electrical components used within the facility for the sump pump, lights, duplex outlets, etc. shall be water and explosion proof.
5. Backflow prevention devices shall be installed on all potable or groundwater water supplies.
6. The maximum length and/or width for this design is 30 feet.
7. The design load limit is for farm tractors and trucks with single rear axles and single wheels spaced at least 48 inches apart and on effective contact are of 96 sq. inches or more. The load limit for this slab design is 16,000 pounds.
8. The base material for the slab shall be natural soils (SC, SP, SM, SW, GC, GP, GM, GW), a 12 inch thick layer of CL or ML soil removed and recompacted to 95 percent of standard proctor density at 2 percent of optimum moisture, or a 12 inch thick layer of compacted (SC, SP, SM, SW, GC, GP, GM, GW) soils.

PERMITS

The NRCS does not assume any responsibility in the determination, application, and/or securing of any necessary permits. All permits for the construction and operation of this facility are the responsibility of the Owner, Operator, and/or Contractor.

UTILITIES

The NRCS does not make any representation to the existence or nonexistence of any public and/or private buried or overhead utilities. Where utilities are shown on the drawing, their location and depth or height are approximate. The exact location and depth or height shall be determined by the responsible utility. Any work within the utility easement will conform to the requirements of the utility company.

REVIEW AND ACCEPTANCE OF THE PLANS

The Drawings and Construction Specifications for this project have been reviewed with me and are accepted for installation. I also acknowledge that any modifications prior to review by the NRCS before implementation may result in NRCS disapproval of this installation. I hereby acknowledge receipt of a copy(ies) of this plan.

_____ Date _____

Owner/Operator

LOCATION MAP

NOT TO SCALE

T_____, R_____, Section_____

VICINITY MAP

NOT TO SCALE

INDEX OF DRAWINGS

JOB CLASS

Designed | Drawn | Checked | Approved | Title | Date 3/2005

AGRICHEMICAL HANDING FACILITY

ANIMAL WASTE

NRCS Natural Resources Conservation Service

United States Department of Agriculture

File Name or_agchem_facility.dwg

Drawing No.

Sheet 1 of 4

CONSTRUCTION NOTES

1. All top soil, organic matter and debris shall be removed from the site. Excavate to remove subgrade and underlying soil to a sufficient depth to allow concrete slab to be situated on firm undisturbed ground as shown on the drawings.

2. All disturbed land surfaces shall be vegetated in accordance with NRCS Oregon Construction Specification CS–63, Vegetation of Construction Sites.

3. This installation shall be constructed to the lines and grades as shown on the drawings.

4. Construction activities shall be performed in a manner that minimizes soil, water and air pollution.

5. Construction activities will be conducted in a manner consistent with all safety regulations for work activities necessary for this installation.

6. Concrete shall be in conformance with NRCS Oregon Construction Specification CS–41, Reinforced Concrete. Approved waterstops shall be placed in all construction joints.

7. Cement shall be Type II or IIA conforming to ASTM Specification C 150.

8. The concrete shall have a compressive strength equal or exceeding 4000 psi at 28 days, 0.40 water–cement ratio, 4 inch maximum slump and air content of 6% plus or minus 1%.

9. The concrete slab shall be finished as follows:

   a. Wash concrete surface with a mixture of one part muriatic acid to five parts water.

   b. Allow concrete to dry thoroughly (3–4 days minimum).

   c. Apply (brush/roller) a petroleum resistant epoxy coating in accordance with manufacturer's recommendations. Coating shall be approved by the Engineer to applying.

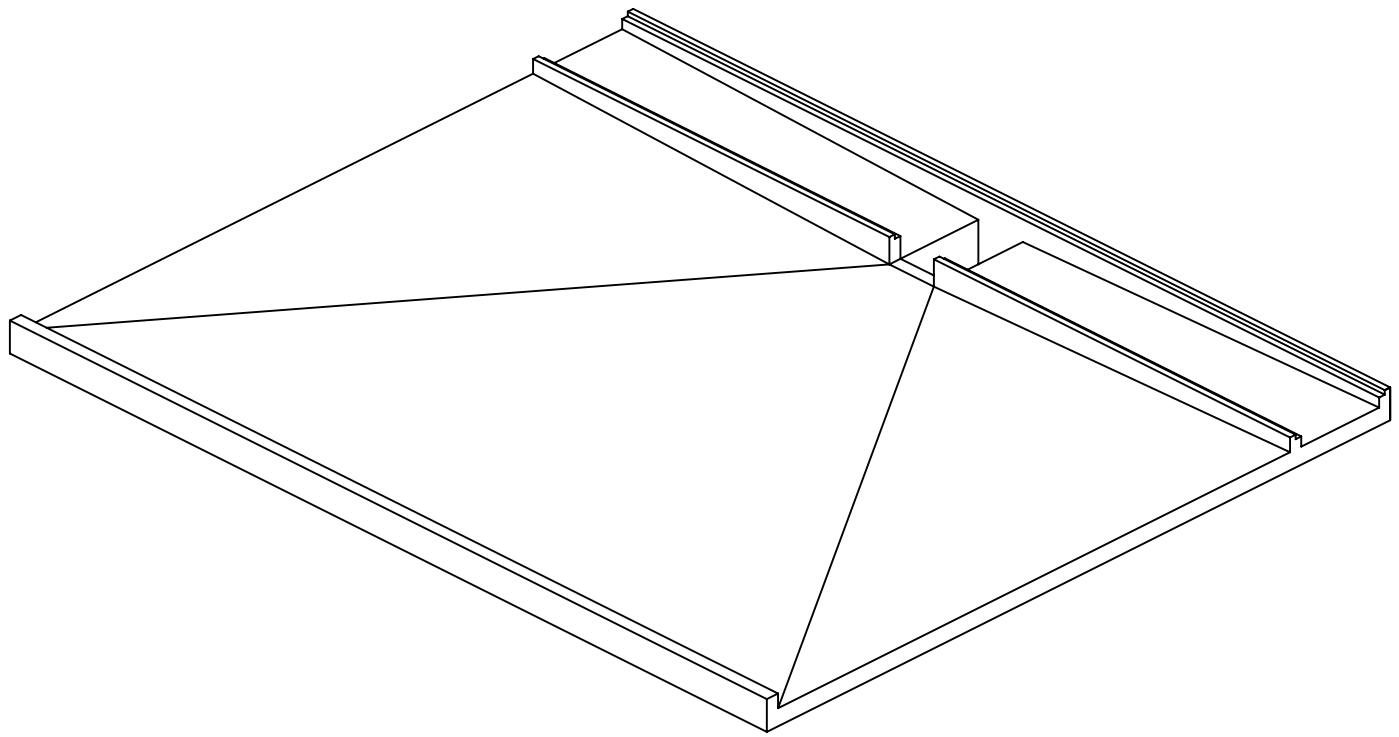
   d. Allow sealant to thoroughly cure prior to use.

10. Provide 3/4" x 45 degree chamfer on all exposed concrete.

11. All reinforcing bar splices shall be 30 bar diameters of the smaller bar being spliced or 12 inches, whichever is greater.

12. All reinforcement shall be placed to have a clear concrete cover of 2 inches from the top surface of the slab and 3 inches where concrete is deposited against the earth.

13. The initial rough tolerances ± is 0.1 foot. After the forms are set, final grading and compaction should be completed prior to slab placement. The final elevation of the base material shall be no more than 1/4 inch above or 1/2 inch below the design grade.



ISOMETRIC OF CONCRETE SLAB ONLY

NOT TO SCALE

DESIGN CAPACITITES

1. Volume of sump storage = _____ gallons.
2. Volume of slab storage = _____ gallons.
3. Containment volume = _____ gallons.

MATERIAL QUANTITIES

1. Volume of concrete = _____ cu. yds.
2. Reinforcing bars = _____ lbs.
3. Grating area = _____ sq. ft.
4. Excavation = _____ cu. yds.
5. Ramp fill materiall = _____ cu. yds.

Date 3/2005
Designed
Drawn
Checked
Approved
Title

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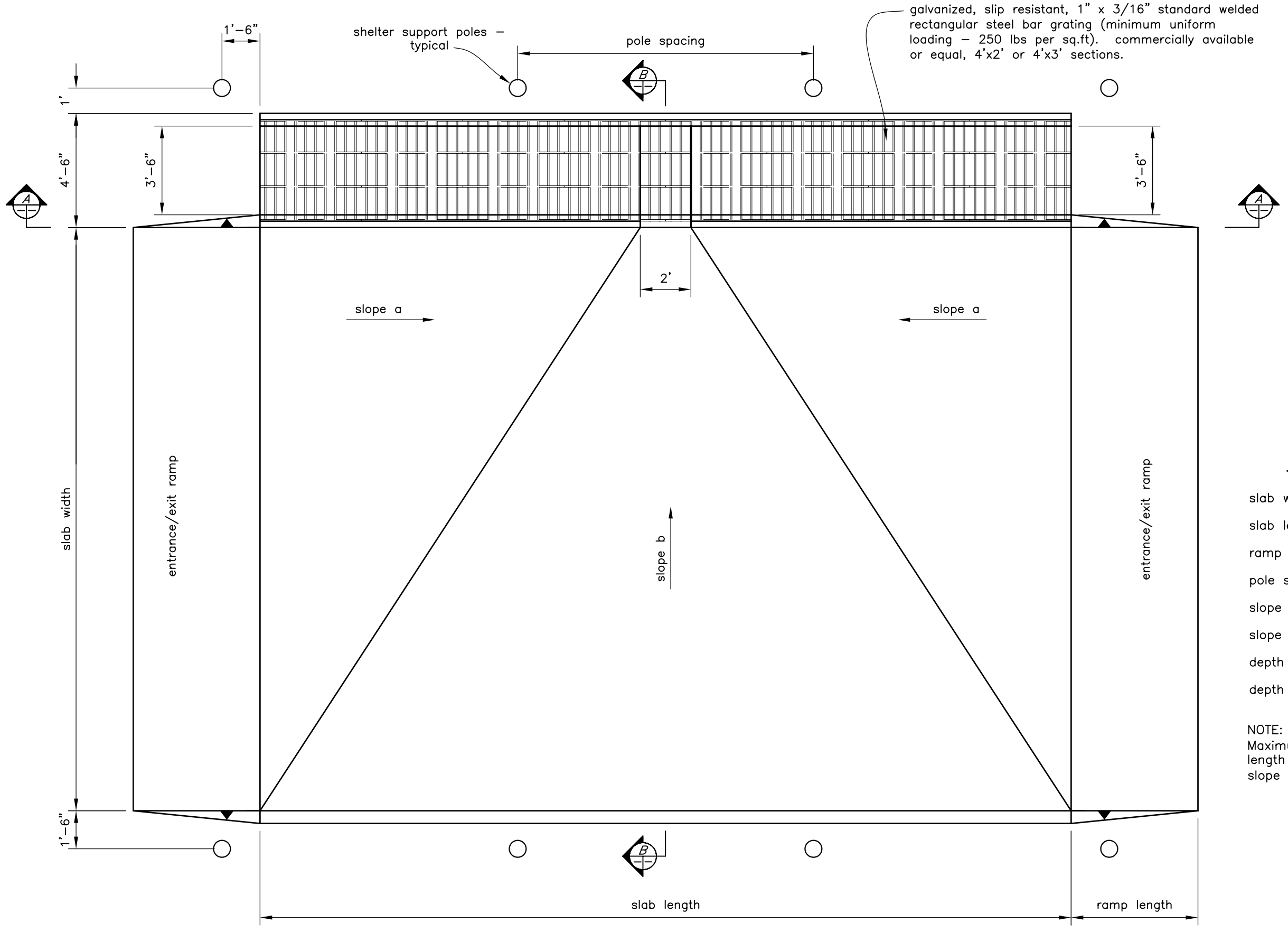

PLAN VIEW

DIMENSIONS

slab width = _____ feet

slab length = _____ feet

ramp length = _____ feet

pole spacing = _____ feet

slope a = _____ ft/ft

slope b = _____ ft/ft

depth a = ___ ft. ___ in.

depth b = ___ ft. ___ in.

NOTE:
Maximum slab width and/or slab length is 30 feet. The minimum slope is 0.001 feet/foot.

Drawing no to scale.

Date 3/2005
Designed
Drawn
Checked
Approved
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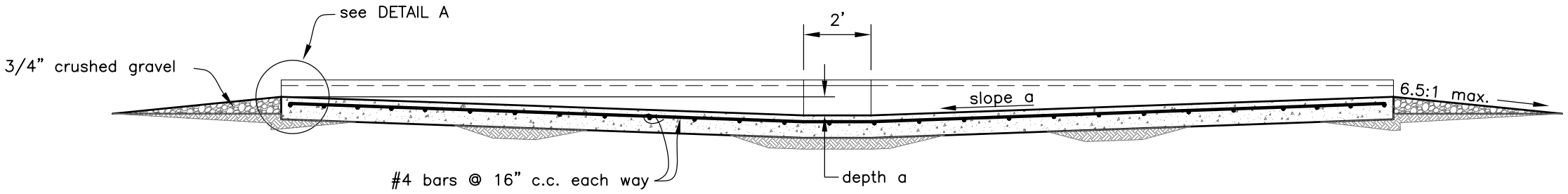
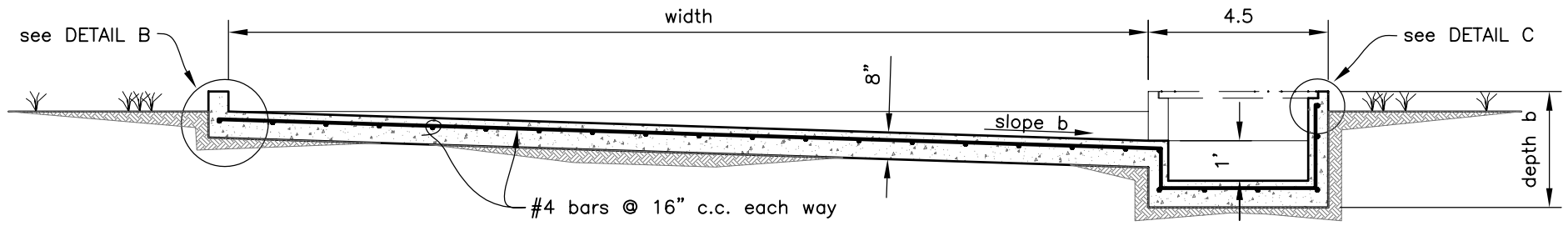
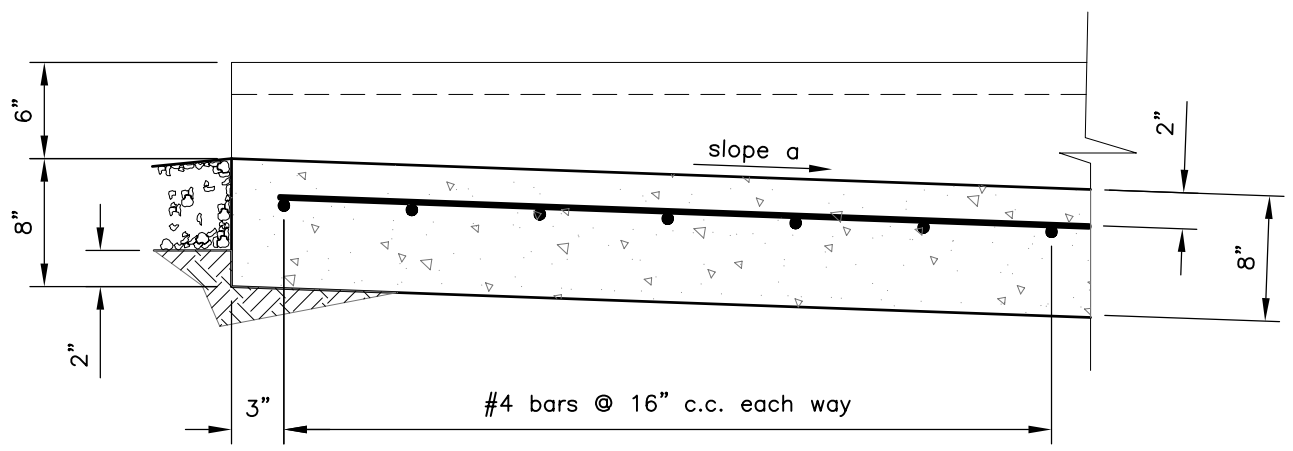


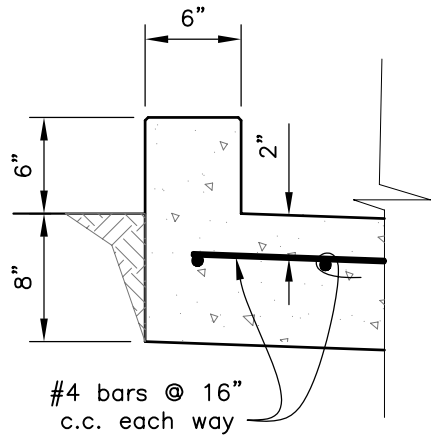
SECTION A–A



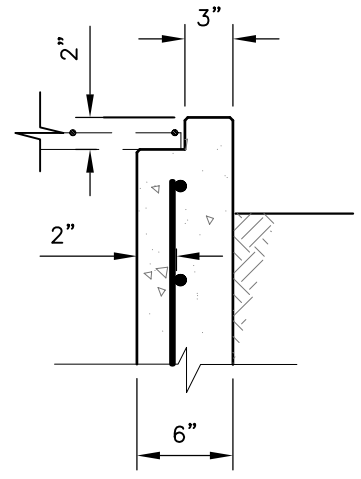
SECTION B–B



DETAIL A



DETAIL B



DETAIL C

Drawing no to scale.

Date 3/2005
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